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>Title: JP63048744A2: SEPARATOR FOR SEALED LEAD-ACID BATTERY A BATTERY

Country: JP Japan

Kind: A

Inventor: TANAKA AKIO;
HASEGAWA TAKAO;
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Assignee: NIPPON MUKI KK

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Published / Filed: 1988-03-01 / 1986-08-14

Application Number: JP1986000189625

IPC Code: H01M 2/16;

Priority Number: 1986-08-14 JP1986000189625

Abstract:

PURPOSE: To improve the diffusion of an electrolyte in increasing the performance by gradually increasing or decreasing the rate of mixing synthetic resin fiber from one side toward the other side of a separator of lead-acid battery formed by mixing the synthetic resin fiber with glass fiber.

CONSTITUTION: 30~90% glass fibers having a mean diameter of 0.3~30 μ are mixed with synthetic resin fibers, which are acid resistant and oxidization resistant, comprising 0.3-3 denier monofilament. A mixing ratio of the synthetic resin is gradually varied from one side 1a toward the other side 1b, and a small amount of binder is mixed with the mixture, then a nonwoven fabric sheet is formed by a dry process. Or, by a wet process, a separator is formed with a cylindrical paper machine so that a mixing ratio of the synthetic fibers is gradually increased to the machine surface side. The side 1a of the separator, which has a large mixing ratio of synthetic fibers, is brought into contact with an anode, and the other side 1b is brought into contact with a cathode, and a plate group is assembled to form a sealed lead-acid battery. Thereby, the gas absorption in the anode and the electrolyte supply to the cathode are improved to remarkably increase the performance of the battery.

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Family: None

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